PATENT S/N 09/132,157

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

MAR 1 8 1999

Examiner: Mark Prenty

Group Art Unit: 2822

Applicant:

Leonard Forbes

Serial No.:

09/132,157

Filed:

August 11, 1998

Title:

Docket: 303.229US2 OR CMOS FORMED BY ION SILICON-GERMANIUM DEVICES

IMPLANTATION AND SOLID PHASE EPITAXIAL REGROWTH

AMENDMENT AND RESPONSE

Assistant Commissioner for Patents Washington, D.C. 20231

In response to the Office Action of December 15, 1998, please amend the above identified patent application as follows:

IN THE CLAIMS

Please amend claims 11, 24-28, 30 and 32-33 as provided below.

(Once amended) 11.

A semiconductor transistor, comprising:

a silicon substrate;

a gate oxide, coupled to the substrate;

a gate, coupled to the gate oxide;

source/drain regions formed in the substrate on opposite sides of the gate; and

a Si xGe_x channel region, having a germanium molar fraction of x, and formed in the substrate, underneath and adjacent the gate oxide and between the source/drain regions[.];

wherein the Si_{1-x}Ge_x channel region has a channel length less than 7μm.

24. (Once amended) A semiconductor transistor formed on a silicon substrate,

comprising:

a $Si_{1-x}Ge_x$ channel region, having a germanium molar fraction of x, and formed in the substrate, underneath and adjacent a gate oxide and between a source region and a drain region[.]

wherein the Si_{1-x}Ge_x channel region has a channel length less than 7µm.